

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factor

1 Costs to be Recovered for Year 2015 True up	Year 2015 Exhibit 1, Line 16	(133,412)	
2 Costs to be Recovered for Year 2016 True up	Year 2016 Exhibit 1, Line 16	(463,478)	
3 Costs to Be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16	403,145	
4 Costs to be Recovered for Year 2018 True Up	Year 2018, Exhibit 1, Line 16	5,643,816	
5 Total Cost to be Recovered Vintages Year 2015, Year 2016, Year 2017, and Year 2018 True-ups	Line 1 through line 4	\$ 5,450,070	
6 Projected SC Residential Sales (kWh) for rate period	R11 Exhibit 3, Page 1 Line 3	6,411,363,511	
7 Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100	0.0850	Application
8 Costs to be Recovered for Vintage Year 2017 Prospective Amounts	Year 2017 Exhibit 1 Line 16	699,427	
9 Costs to be Recovered for Vintage Year 2018 Prospective Amounts	Year 2018 Exhibit 1 Line 16	3,658,997	
10 Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019 Exhibit 1 Line 1	2,189,992	
11 Costs to be Recovered for Vintage Year 2020 Prospective Amounts	Year 2020, Exhibit 1, pg 1 Line 12	25,596,189	
12 Less: Costs to be Recovered through Solar Access Fee	R11 Exhibit 3 page 2	517,452	
13 Total Prospective Components of Residential Revenue Requirement	Line 8 through Line 11 Less Line 12	\$ 31,627,153	
14 Projected SC Residential Sales (kWh) for rate period	R11 Exhibit 3, Page 1 Line 3	6,411,363,511	
15 Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Line 13 / Line 14 * 100	0.4933	Application
16 Total Revenue Requirement for Residential Rider EE	Line 5 + Line 13	\$ 37,077,223	
17 Total Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 15	0.5783	Application

Non-Residential Billing Factors for Rider 11 True-Up Components

18 Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27	\$ (24,291)	
19 Projected Vintage Year 2015 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 8	5,311,739,884	
20 EE Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 18/Line 19 * 100	(0.0005)	Application
21 Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40	\$ (5,234)	
22 Projected Vintage Year 2015 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 9	6,028,573,210	
23 DSM Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 21/Line 22 * 100	(0.0001)	Application
24 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27	\$ 866,701	
25 Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 10	5,020,899,764	
26 EE Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 24/Line 25 * 100	0.0173	Application
27 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40	\$ (5,634)	
28 Projected Vintage Year 2016 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 11	5,951,336,823	
29 DSM Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 27/Line 28 * 100	(0.0001)	Application
30 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	\$ 1,916,003	
31 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 12	4,924,955,503	
32 EE Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 30/Line 31 * 100	0.0389	Application
33 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	\$ (129,452)	
34 Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 13	5,951,336,823	
35 DSM Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 33/Line 34 * 100	(0.0022)	Application
36 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 1,754,327	
37 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 14	4,878,266,122	
38 EE Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 36/Line 37 * 100	0.0360	Application
39 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	\$ 1,127,570	
40 Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 15	5,966,243,960	
41 DSM Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 39/Line 40 * 100	0.0189	Application

Non-Residential Billing Factors for Rider 11 Prospective Components

42 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	\$ 1,151,434	
43 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 12	4,924,955,503	
44 EE Revenue Requirement Vintage Year 2017 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 42/Line 43 * 100	0.0234	Application
45 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 4,251,946	
46 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 14	4,878,266,122	
47 EE Revenue Requirement Vintage Year 2018 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 45/Line 46 * 100	0.0872	Application
48 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	\$ 5,687,530	
49 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 16	4,843,914,753	
50 EE Revenue Requirement Vintage Year 2019 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 48/Line 49 * 100	0.1174	
51 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	\$ 20,142,538	
52 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 18	4,843,914,753	
53 EE Revenue Requirement Vintage Year 2020 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 51/Line 52 * 100	0.4158	
54 Total Vintage Year 2020 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2020 Exhibit 1, Pg. 2, Line 16	\$ 9,092,443	
55 Projected Vintage Year 2020 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 19	5,964,865,760	
56 DSM Revenue Requirement Vintage Year 2020 Program Costs Non-Residential Rider EE (cents per kWh)	Line 54/Line 55 * 100	0.1524	Application
<u>Total costs to be recovered in Rider 11 from Non-Residential Customers</u>			
57 Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27	(24,291)	
58 Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40	(5,234)	
59 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27	866,701	
60 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40	(5,634)	
61 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	1,916,003	
62 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	(129,452)	
63 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	1,754,327	
64 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	1,127,570	
65 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	1,151,434	
66 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	4,251,946	
67 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	5,687,530	
68 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	20,142,538	
69 Total Vintage Year 2020 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2020 Exhibit 1, Pg. 2, Line 16	9,092,443	
70 Total Non-Residential Revenue Requirements		45,825,880	Application

RIDER EE (SC)
ENERGY EFFICIENCY RIDERAPPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2020, cost recovery under Rider EE consists of the four year term program, years 2015-2018, as well as rates under the continuation of that program for years 2019-2020 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, FL, PL, GI and NL for program years 2015-2020.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2015, using the method approved by the PSCSC set forth in Order No. 2013-889.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be true-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- a. The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. Electric service to the Customer must be provided under:
 1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
 2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2019 Program Year, the enrollment period begins November 1, 2019 and ends December 31, 2019.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2020 through December 31, 2020 including revenue-related taxes and utility assessments are as follows:

Residential

Vintage 2015, 2016, 2017, 2018, 2019, 2020 0.5783¢ per kWh

Total Residential 0.5783¢ per kWh

Nonresidential

	<u>Energy Efficiency</u>	<u>Demand-Side Management</u>
2015 Vintage*	(0.0005)¢ per kWh	(0.0001)¢ per kWh
2016 Vintage*	0.0173¢ per kWh	(0.0001)¢ per kWh
2017 Vintage*	0.0623¢ per kWh	(0.0022)¢ per kWh
2018 Vintage*	0.1232¢ per kWh	0.0189¢ per kWh
2019 Vintage*	0.1174¢ per kWh	0.0000¢ per kWh
2020 Vintage*	0.4158¢ per kWh	0.1524¢ per kWh

Total Vintage
2015, 2016, 2017, 2018,
2019 and 2020 0.7355¢ per kWh 0.1689¢ per kWh

Total Nonresidential 0.9044¢ per kWh

* Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

Year 2015 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2015 - December 31, 2015
Docket No. 2019-89-E
Calculation of Year 2015 True up of Shared Savings and Y1, Y2, Y3 and Y4 Lost Revenues

Residential Energy Efficiency Programs

Line			Rider 6	Rider 7 Year 2	Rider 8 Year 3	True-up to be Collected	True-up to be Collected	Estimate of	True Up To be	True Up to be	Year 2015
			Year 2015 Estimate	Lost Revenue Estimate	Lost Revenue Estimate	in Rider 8	in Rider 9	Year 4 Lost Revenue	Collected in Rider 10	Collected in Rider 11	
1	Residential EE Program Cost	Year 2015 Exh 2 (B * D)	\$ 11,501,369			\$ (1,186,566)	0		-	-	\$ 10,314,803
2	Residential EE Earned Utility Incentive	Year 2015 Exh 2 (C * D)	426,243			1,436,395	183,068		0	(0)	2,045,706
3	Total EE Program Cost and Incentive Components	Year 2015 Exh 2 Line 10	11,927,612			249,829	183,068		0	(0)	12,360,510
4	Residential DSM Program Cost	Year 2015 Exh 2 (B * E)	3,913,647			(883,234)	0		-	-	3,030,413
5	Residential DSM Earned Utility Incentive	Year 2015 Exh 2 (C * E)	1,037,481			(73,162)	(4,299)		(167)	-	959,853
6	Total DSM Program Cost and Incentive Components	Year 2015 Exh 2 Line 11	4,951,128			(956,396)	(4,299)		(167)	-	3,990,266
7	Residential Existing DSM Program Revenue Requirement	Rider 8 Year 2015 Exhibit 3 Line 3	734,223			(157,796)			-	-	576,427
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	17,612,963			(864,363)	178,769		(167)	-	16,927,203
9	Revenue-related taxes and regulatory fees factor		1.004517			1.004493	1.004493		1.004487	1.004450	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	17,692,521			(868,246)	179,573		(167)	-	17,003,680
11	Residential Net Lost Revenues	R11 Exh 1 page 1 Line 11	3,125,109	1,655,188	2,664,819	914,189	1,079,208	1,143,018	33,505	3,749	10,618,785
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	20,817,630	1,655,188	2,664,819	45,942	1,258,781	1,143,018	33,338	3,749	27,622,464
13	Estimated Revenues Collected	R11 Exh 2 Line 1									27,747,708
14	Residential EE Revenue Requirement	Line 12 - Line 13									\$ (125,244)
15	Estimated Interest to be Recovered	R11 Exh 4 page 1 Line 12									(8,168)
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15									\$ (133,412)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

Line		Reference	Rider 6	Rider 7 Year 2	Rider 8 Year 3	True-up to be Collected	True-up to be Collected	Estimate of Year 4	True Up to be	True Up to be	Year 2015
			Year 2015 Estimate	Lost Revenue Estimate	Lost Revenue Estimate	in Rider 8	in Rider 9	Lost Revenue	Collected in Rider 10	Collected in Rider 11	
17	Non- Residential EE Program Cost	Year 2015 Exh 2 (B * D) Line 24	\$ 6,427,482			\$ 4,342,595	\$ (5)		\$ 0	\$ -	\$ 10,770,072
18	Non-Residential EE Earned Utility Incentive	Year 2015 Exh 2 (C * D) Line 24	2,790,408			962,744	319,858		(229,135)	-	3,843,875
19	Total EE Program Cost and Incentive Components	Year 2015 Exh 2 Line 24	9,217,890			5,305,339	319,853		(229,135)	-	14,613,947
20	Revenue-related taxes and regulatory fees factor		1.004517			1.004493	1.004468		1.004487	1.004450	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	9,259,527			5,329,175	321,282		(230,163)		14,679,822
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 1 Line 25	860,328	2,798,965	2,476,910	548,406	27,510	1,189,630	(25,649)	(1,315)	7,874,785
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	10,119,855	2,798,965	2,476,910	5,877,581	348,792	1,189,630	(255,812)	(1,315)	22,554,607
24	Estimated Revenues Collected	R11 Exh 2 Line 9									22,635,674
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24									\$ (81,067)
26	Estimated Interest to be Recovered	R11 Exh 4 page 3 Line 12									56,776
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + Line 26									\$ (24,291)
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 8									5,311,739,884
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100									(0.0005)

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2015 Exh 2 (B * D) Line 26									
31	Non-Residential DSM Earned Utility Incentive	Year 2015 Exh 2 (C * D) Line 26									
32	Total DSM Program Cost and Incentive Components	Year 2015 Exh 2 Line 26									
33	Non- Residential Existing DSM Program Revenue Requirement	Rider 8 Year 2015 Exh 3 Line 3									
34	Total DSM Revenue Requirement	Line 32 + Line 33									
35	Revenue-related taxes and regulatory fees factor										
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35									
37	Estimated Revenues Collected	R11 Exhibit 2 Line 17									
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37									(9,255)
39	Estimated Interest Due	R11 Exh 4 Page 3 Line 25									4,021
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39									\$ (5,234)
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 9									6,028,573,210
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100									(0.0001)

Year 2015 Revenue Requirement as Approved in Rider 9	True up to be Collected in Rider 10	True Up to be Collected in Rider 11	Year 2015 Revenue Requirement True up
\$ 4,928,506	\$ (0)	\$ -	\$ 4,928,506
1,561,327	(272)	-	1,561,055
6,489,833	(272)	-	6,489,561
937,471	-	-	937,471
7,427,304	(272)	-	7,427,032
	1.004487	1.004450	
7,467,895	(273)	-	7,467,622
			7,476,877
			(9,255)
			4,021
			\$ (5,234)
			6,028,573,210
			(0.0001)

¹ Details outlining the change in the program cost and incentive component can be found in Year 2015 Exh 2. All amounts disallowed in the R8 ORS audit have been reflected in both year 2015 Exh 2 and Year 2015 Exh 1.

² Updated lost revenues by year can be found in R11 Exh 1 page 1. Year 2015 has been updated with most recent participation.

Year 2015 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2019-89-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

	A		B		C= A + B		D		E = C * D
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	Total Cost	Earned Utility Incentive	System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2015 Exhibit 3 Line 6)	SC Residential Revenue Requirement	
Residential Programs									
EE Programs									
1 Appliance Recycling	748	5,534,546	\$ 1,979,921	\$ 1,533,087	\$ 51,386	\$ 1,584,473	26.97684%	\$ 427,441	
2 Energy Efficiency Education	830	4,417,898	2,764,812	2,049,791	82,227	2,132,019	26.97684%	575,151	
3 Energy Efficient Appliances and Devices	14,743	129,350,071	52,058,299	12,024,262	4,603,914	16,628,176	26.97684%	4,485,757	
4 HVAC Energy Efficiency	2,663	4,763,631	7,416,872	5,404,412	231,433	5,635,845	26.97684%	1,520,373	
5 Income Qualified Energy Efficiency and Weatherization Assistance	608	3,125,184	1,992,431	2,232,000	-	2,232,000	26.97684%	602,123	
6 Multi-Family Energy Efficiency	1,339	13,988,109	7,827,117	2,088,423	659,950	2,748,373	26.97684%	741,424	
7 Energy Assessments	1,275	10,293,765	12,007,615	3,079,275	1,026,759	4,106,035	26.97684%	1,107,678	
8 Total for Residential Conservation Programs	22,205	171,473,205	\$ 86,047,067	\$ 28,411,251	\$ 6,655,669	\$ 35,066,920		\$ 9,459,947	
9 My Home Energy Report (1)	61,770	228,776,428	\$ 17,889,996	\$ 9,824,522	927,530	10,752,051	26.97684%	2,900,564	
10 Total Residential Conservation and Behavioral Programs	83,975	400,249,633	\$ 103,937,063	38,235,773	\$ 7,583,199	\$ 45,818,972		\$ 12,360,511	
							SC Residential Peak Demand Allocation Factor (Year 2015, Exhibit 3 Line 14)	C * D	
11 Total DSM Programs (2)	871,944	18,374	\$ 119,732,433	31,892,405	\$ 10,101,603	\$ 41,994,008	9.50199%	\$ 3,990,266	
12 Total Residential Revenue Requirement								16,350,777	
Non-Residential Programs									
EE Programs									
13 Non Residential Smart Saver Customer Technical Assessments	87	765,303	\$ 332,740	\$ 655,585	\$ (37,127)	\$ 618,458	26.97684%	\$ 166,840	
14 Non Residential Smart Saver Custom	11,108	76,142,627	56,053,976	9,879,256	5,310,093	15,189,349	26.97684%	4,097,606	
15 Non Residential Smart Saver Energy Efficient Food Service Products	140	1,672,329	1,131,630	191,797	108,081	299,878	26.97684%	80,898	
16 Non Residential Smart Saver Energy Efficient HVAC Products	1,611	5,405,220	6,603,869	1,137,153	628,672	1,765,825	26.97684%	476,364	
17 Non Residential Smart Saver Energy Efficient Lighting Products	11,523	67,083,512	43,931,817	11,289,537	3,753,862	15,043,399	26.97684%	4,058,234	
18 Non Residential Energy Efficient Pumps and Drives	423	3,354,574	1,992,190	464,115	175,729	639,843	26.97684%	172,610	
19 Non Residential Energy Efficient ITEE	540	5,196,710	1,177,841	714,361	767,661	53,300	26.97684%	207,091	
20 Non Residential Energy Efficient Process Equipment Products	112	630,354	544,546	88,343	52,463	140,807	26.97684%	37,985	
21 Small Business Energy Saver	14,417	77,515,622	50,200,051	13,922,049	4,171,970	18,094,019	26.97684%	4,881,195	
22 Smart Energy in Offices	3,109	14,938,552	1,732,693	1,456,572	31,754	1,488,326	26.97684%	401,503	
23 Business Energy Report	-	-	-	124,636	-	124,636	26.97684%	33,623	
24 Total for Non-Residential Conservation Programs	43,072	252,704,804	\$ 163,701,353	39,923,404	\$ 14,248,797	\$ 54,172,201		\$ 14,613,948	
							SC Residential Peak Demand Allocation Factor (Year 2015, Exhibit 3 Line 15)	C * D	
25 Total DSM Programs	871,944	18,374	\$ 119,732,433	\$ 31,892,405	10,101,603	\$ 41,994,008	15.45354%	\$ 6,489,561	
26 Total Non-Residential Revenue Requirement								21,103,509	
							SC Residential Peak Demand Allocation Factor (Year 2015, Exhibit 3 Line 13)	C * D	
Total DSM Program Breakdown									
27 Power Manager (Residential)	454,663	-	\$ 62,426,861	\$ 14,743,019	5,483,642	20,226,661			
28 EnergyWise for Business (Non-Residential)	6	18,374	12,083	1,544,003	(176,171)	1,367,832			
29 Power Share Call Option (Non-Residential)	-	-	-	-	-	-			
30 Power Share (Non-Residential)	417,276	-	57,293,489	15,605,384	4,794,132	20,399,516			
31 Total DSM	871,944	18,374	\$ 119,732,433	\$ 31,892,405	\$ 10,101,603	41,994,008	24.95553%	\$ 10,479,827	
32 Total All Programs	998,991	652,972,810	387,370,849	110,051,582	31,933,599	141,985,181		37,454,286	

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2019-89-E
Allocation Factor Year 2015

			<u>MWH</u>
Sales Allocator - 2014			
1	NC Retail MWH Sales, at Generation	Company Records	59,567,575
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,026,080
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	81,593,655
4	Greenwood Retail MWH Sales, at Generation	Company Records	54,449
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	81,648,104
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	26.97684%

			<u>NC MW</u>	<u>SC MW</u>	<u>Total MW</u>
Demand Allocators - 2014					
7	Residential	Company Records	4,994,057	1,459,126	6,453,183
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,518,371	2,373,045	8,891,416
9	Greenwood	Company Records	-	11,401	11,401
10	Total	Line 7 + Line 8+ Line 9	11,512,428	3,843,572	15,356,000
11	Wholesale Peak Demand	Company Records			1,211,771
12	Total System Peak Demand	Line 10 + Line 11			16,567,771
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total			24.95553%
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total			9.50199%
15	SC Non-residential	Line 8, SC / Line 10 Total			15.45354%
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total			8.80701%
17	SC Non-residential	Line 8, SC / Line 12 Total			14.32326%

Year 2016 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2016 - December 31, 2016
Docket No. 2019-89-E
Calculation of Year 2016 True up of Shared Savings, Y1, Y2 and Y3 Lost Revenues Lost Revenues

Residential Energy Efficiency Programs			Rider 7	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Rider 10 Year 4 Lost Revenue Estimate	True up to be Collected in Rider 11	Year 2016
Line			Year 2016 Estimate							
1	Residential EE Program Cost	Year 2016 Exh 2 (B * D)	\$ 11,482,088		\$ 3,178,895		\$ (0)		\$ -	\$ 14,660,983
2	Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D)	675,068		2,019,774		(22,174)		-	2,672,668
3	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 10	12,157,156		5,198,669		(22,174)		-	17,333,651
4	Residential DSM Program Cost	Year 2016 Exh 2 (B * E)	3,134,039		(116,010)		0		-	3,018,029
5	Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * E)	1,152,056		(58,775)		(9,614)		(0)	1,083,667
6	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 11	4,286,095		(174,785)		(9,614)		(0)	4,101,696
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exhibit 3 Line 3	673,781		(86,148)		-			587,633
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	17,117,032		4,937,736		(31,788)		(0)	22,022,980
9	Revenue-related taxes and regulatory fees factor		1.004517		1.004493		1.004487		1.004450	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	17,194,350		4,959,921		(31,931)		(0)	22,122,340
11	Residential Net Lost Revenues	R11 Exh 1 page 2 Line 36	3,954,894	2,211,965	510,764	2,628,500	361,245	1,401,449	10,107	11,078,925
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	21,149,244	2,211,965	5,470,685	2,628,500	329,315	1,401,449	10,107	33,201,265
13	Estimated Revenues Collected	R11 Exh 2 Line 11								33,634,996
14	Residential EE Revenue Requirement	Line 12 - Line 13								\$ (433,731)
15	Estimated Interest to be Recovered	R11 Exh 4 page 1 Line 25								(29,747)
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15								\$ (463,478)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs			Rider 7	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Rider 10 Year 4 Lost Revenue Estimate	True up to be Collected in Rider 11	Year 2016
Reference			Year 2016 Estimate							
17	Non- Residential EE Program Cost	Year 2016 Exh 2 (B * D) Line 24	\$ 13,492,828		\$ 4,824,922		\$ (1)		\$ -	\$ 18,317,749
18	Non-Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 24	4,203,327		1,374,876		(132,190)		-	5,446,013
19	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 24	17,696,155		6,199,798		(132,191)		-	23,763,762
20	Revenue-related taxes and regulatory fees factor		1.004517		1.004493		1.004487		1.004450	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	17,776,089		6,227,654		(132,784)		-	23,870,958
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 2 Line 51	1,511,303	3,672,465	301,230	3,365,361	(532,294)	1,806,744	(2,579)	10,122,231
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	19,287,392	3,672,465	6,528,884	3,365,361	(665,078)	1,806,744	(2,579)	33,993,189
24	Estimated Revenues Collected	R11 Exh 2 Line 8								33,223,217
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24								\$ 769,971
26	Estimated Interest to be Recovered	R11 Exh 4 page 4 Line 12								96,730
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26								\$ 866,701
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Line 10								5,020,899,764
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100								0.0173

Non- Residential DSM Programs			Rider 7	True-up to be Collected in Rider 9	True-up to be Collected in Rider 10	True up to be Collected in Rider 11	Year 2016 Revenue Requirement True up
Line			Year 2016 Estimate				
30	Non- Residential DSM Program Cost	Year 2016 Exh 2 (B * D) Line 26	\$ 4,568,988	\$ (417,013)	\$ (0)		\$ 4,151,975
31	Non-Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 26	1,679,535	(175,482)	(13,227)	(0)	1,490,826
32	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 26	6,248,523	(592,495)	(13,227)	(0)	5,642,801
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exh 4 Line 3	982,277	(173,856)	-		808,421
34	Total DSM Revenue Requirement	Line 32 + Line 33	7,230,800	(766,351)	(13,227)	(0)	6,451,222
35	Revenue-related taxes and regulatory fees factor		1.004517	1.004493	1.004487	1.004450	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35	7,263,462	(769,794)	(13,287)	(0)	6,480,381
37	Estimated Revenues Collected	R11 Exhibit 2 Line 17					6,486,453
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37					(6,072)
39	Estimated Interest Due	R11 Exh 4 Page 4 Line 25					438
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39					\$ (5,634)
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 11					5,951,336,823
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100					(0.0001)

¹ Details outlining the change in the program cost and incentive component can be found in Year 2016 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 2. Year 2016 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Year 2016 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2016
Docket Number 2019-89-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

	A		B		C = A + B		D		E = C * D
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	Total Cost	Earned Utility Incentive	System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2016 Exhibit 3 Line 6)	SC Residential Revenue Requirement	
Residential Programs									
EE Programs									
1 Appliance Recycling	21	164,720	\$ 62,017	\$ (97,391)	\$ 18,332	\$ (79,059)	26.8397200%	\$ (21,219)	
2 Energy Efficiency Education	1,512	6,441,283	3,907,380	2,121,607	205,364	2,326,971	26.8397200%	624,552	
3 Energy Efficient Appliances and Devices	14,518	120,226,223	85,492,137	24,013,998	7,069,986	31,083,983	26.8397200%	8,342,854	
4 HVAC Energy Efficiency	2,462	6,294,837	8,020,083	7,821,844	22,798	7,844,642	26.8397200%	2,105,480	
5 Income Qualified Energy Efficiency and Weatherization Assistance	649	4,801,478	3,193,753	4,780,115	-	4,780,115	26.8397200%	1,282,970	
6 Multi-Family Energy Efficiency	1,572	15,235,497	9,431,790	2,512,199	795,753	3,307,952	26.8397200%	887,845	
7 Energy Assessments	1,070	7,389,091	7,555,385	2,672,325	561,552	3,233,877	26.8397200%	867,964	
8 Total for Residential Conservation Programs	21,804	160,553,127	\$ 117,662,546	\$ 43,824,697	\$ 8,673,784	\$ 52,498,480		\$ 14,090,446	
9 My Home Energy Report (1)	71,814	283,569,925	\$ 21,965,619	\$ 10,799,506	1,284,103	12,083,609	26.8397200%	3,243,207	
10 Total Residential Conservation and Behavioral Programs	93,618	444,123,052	\$ 139,628,165	\$ 54,624,202	\$ 9,957,888	\$ 64,582,090		\$ 17,333,652	
							SC Residential Peak Demand Allocation Factor (Year 2016, Exhibit 3 Line 14)	C * D	
11 Total DSM Programs (2)	825,492	718,623	\$ 116,785,924	28,330,295	\$ 10,172,397	\$ 38,502,692	10.65301%	\$ 4,101,696	
12 Total Residential Revenue Requirement								<u>21,435,348</u>	
Non-Residential Programs									
EE Programs									
13 Non Residential Smart Saver Customer Technical Assessments	1,584	16,953,402	\$ 9,883,019	\$ 2,026,728	\$ 903,473	\$ 2,930,201	26.8397200%	\$ 786,458	
14 Non Residential Smart Saver Custom	7,934	52,154,624	40,573,805	7,328,748	3,811,133	11,139,881	26.8397200%	2,989,913	
15 Non Residential Smart Saver Energy Efficient Food Service Products	356	3,809,316	2,529,075	323,048	253,693	576,741	26.8397200%	154,796	
16 Non Residential Smart Saver Energy Efficient HVAC Products	808	3,316,901	3,553,829	1,469,808	239,662	1,709,470	26.8397200%	458,817	
17 Non Residential Smart Saver Energy Efficient Lighting Products	29,268	167,342,422	125,156,168	39,533,875	9,846,564	49,380,439	26.8397200%	13,253,571	
18 Non Residential Energy Efficient Pumps and Drives	368	2,494,340	1,637,693	470,813	134,191	605,004	26.8397200%	162,381	
19 Non Residential Energy Efficient ITEE	107	2,462,027	785,803	284,529	57,646	342,175	26.8397200%	91,839	
20 Non Residential Energy Efficient Process Equipment Products	50	313,131	288,530	125,674	18,728	144,402	26.8397200%	38,757	
21 Non Residential Smart Saver Performance Incentive	-	-	-	34,795	(4,001)	30,794	26.8397200%	8,265	
22 Small Business Energy Saver	16,110	85,687,928	58,204,978	15,328,796	4,930,761	20,259,557	26.8397200%	5,437,608	
23 Smart Energy in Offices	3,505	16,842,267	1,920,479	1,059,414	99,022	1,158,436	26.8397200%	310,921	
24 Business Energy Report	388	5,561,349	312,882	262,432	-	262,432	26.8397200%	70,436	
25 Total for Non-Residential Conservation Programs	60,480	356,937,707	\$ 244,846,261	68,248,660	\$ 20,290,874	\$ 88,539,534		\$ 23,763,762	
							SC Residential Peak Demand Allocation Factor (Year 2016, Exhibit 3 Line 15)	C * D	
26 Total DSM Programs	825,492	718,623	\$ 116,785,924	\$ 28,330,295	10,172,397	\$ 38,502,692	14.65560%	\$ 5,642,801	
27 Total Non-Residential Revenue Requirement								<u>29,406,562</u>	
							SC Residential Peak Demand Allocation Factor (Year 2016, Exhibit 3 Line 13)	C * D	
Total DSM Program Breakdown									
28 Power Manager (Residential)	455,393	-	\$ 64,172,625	\$ 13,611,812	5,814,493	19,426,305			
29 EnergyWise for Business (Non-Residential)	1,199	718,623	629,002	464,302	18,941	483,243			
30 Power Share Call Option (Non-Residential)	-	-	-	-	-	-			
31 Power Share (Non-Residential)	368,900	-	51,984,297	14,254,181	4,338,963	18,593,144			
32 Total DSM	825,492	718,623	\$ 116,785,924	\$ 28,330,295	\$ 10,172,397	38,502,693	25.30861%	\$ 9,744,497	
33 Total All Programs	<u>979,590</u>	<u>801,779,382</u>	<u>501,260,350</u>	<u>151,203,157</u>	<u>40,421,159</u>	<u>191,624,317</u>		<u>50,841,910</u>	

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2016
Docket Number 2019-89-E
Allocation Factor Year 2016

			<u>MWH</u>
Sales Allocator - 2015			
1	NC Retail MWH Sales, at Generation	Company Records	60,762,752
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,311,058
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	83,073,810
4	Greenwood Retail MWH Sales, at Generation	Company Records	53,197
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	83,127,007
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	26.83972%

Demand Allocators - 2015			NC MW	SC MW	Total MW
7	Residential	Company Records	5,403,520	1,703,204	7,106,724
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,525,765	2,343,137	8,868,902
9	Greenwood	Company Records	-	12,374	12,374
10	Total	Line 7 + Line 8+ Line 9	11,929,285	4,058,715	15,988,000
11	Wholesale Peak Demand	Company Records			1,458,384
12	Total System Peak Demand	Line 10 + Line 11			17,446,384
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.30861%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.65301%		
15	SC Non-residential	Line 8, SC / Line 10 Total	14.65560%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.76250%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.43050%		

Amended Year 2017 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2017 - December 31, 2017

Docket No. 2019-89-E
Calculation of Year 2017 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		Estimate of Year 4 Lost Revenues
1	Residential EE Program Cost	Year 2017 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2017 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R11 Exh 1 page 3 Line 62
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R11 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R11 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15
		\$ 699,427
		699,427
		\$ 699,427
		\$ 699,427

Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Year 2017
\$ 12,383,092		\$ 5,273,485		\$ -	\$ 17,656,577
1,384,934		2,008,972		(92,627)	3,301,279
13,768,026		7,282,457		(92,627)	20,957,856
2,997,324		251,290		-	3,248,614
1,117,352		68,938		-	1,186,290
4,114,676		320,228		-	4,434,904
576,427		22,800		-	599,227
18,459,129		7,625,485	-	(92,627)	25,991,987
1,004,493		1,004,487		1,004,450	
18,542,066		7,659,701		(93,039)	26,108,728
4,457,989	4,202,002	(197,107)	3,175,509	(131,090)	11,507,303
23,000,055	4,202,002	7,462,594	3,175,509	(224,129)	37,616,031
					37,922,311
					\$ (306,281)
					709,425
					\$ 403,145

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Estimate of Year 4 Lost Revenues
17	Non- Residential EE Program Cost	Year 2017 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 3 Line 78
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R11 Exh 2 Line 8
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R11 Exh 4 page 5 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 12
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100
		\$ 1,151,434
		1,151,434
		\$ 1,151,434
		\$ 1,151,434
		4,924,955,503
		0.0234

Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Year 2017
\$ 14,343,825		\$ 12,031,371		\$ -	\$ 26,375,196
4,131,457		3,136,348		1,261,167	8,528,972
18,475,282		15,167,719		1,261,167	34,904,168
1,004,493		1,004,487		1,004,450	
18,558,291		15,235,776		1,266,779	35,060,847
2,062,368	9,466,867	(2,154,791)	5,864,726	562,677	15,801,847
20,620,659	9,466,867	13,080,985	5,864,726	1,829,456	50,862,694
					49,836,661
					\$ 1,026,033
					889,970
					\$ 1,916,003
					4,924,955,503
					0.0389

Non- Residential DSM Programs

		Estimate of Year 4 Lost Revenues
30	Non- Residential DSM Program Cost	Year 2017 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exh 4 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R11 Exhibit 2 Line 17
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R11 Exh 4 Page 5 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 13
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100
		\$ 1,151,434
		1,151,434
		\$ 1,151,434
		\$ 1,151,434
		4,924,955,503
		0.0234

Rider 8 Year 2017 Estimate	True-up to be Collected in Rider 10	True-up to be Collected in Rider 11	Year 2017 Revenue Requirement True up
\$ 4,874,691	\$ (377,480)	\$ -	\$ 4,497,211
1,817,203	(174,966)	-	1,642,237
6,691,894	(552,446)	-	6,139,448
937,471	(107,933)	-	829,538
7,629,365	(660,379)	-	6,968,986
1,004,517	1,004,487	1,004,450	
7,663,827	(663,342)	-	7,000,484
			7,137,618
			(137,133)
			7,682
			\$ (129,452)
			5,951,336,823
			0.0022

¹ Details outlining the change in the program cost and incentive component can be found in Year 2017 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 3. Year 2017 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

[illegible]

E Programs														
3	Non Residential Smart Saver Customer Technical Assessments	1,627	15,791,732	\$	10,616,111	\$	2,135,919	\$	975,222	\$	3,111,141	27.1285500%	\$	844,007
4	Non Residential Smart Saver Custom	6,010	40,609,855		35,921,968		7,280,168		3,293,807		10,573,975	27.1285500%		2,868,566
5	Non Residential Smart Saver Energy Efficient Food Service Products	112	1,383,542		975,826		305,687		77,066		382,753	27.1285500%		103,835
6	Non Residential Smart Saver Energy Efficient HVAC Products	894	2,954,877		3,173,877		1,557,542		185,879		1,743,420	27.1285500%		472,965
7	Non Residential Smart Saver Energy Efficient Lighting Products	47,322	270,572,885		249,011,331		66,551,086		20,982,928		87,534,014	27.1285500%		23,746,709
8	Non Residential Energy Efficient Pumps and Drives	687	4,806,849		3,186,443		527,539		305,774		833,313	27.1285500%		226,066
9	Non Residential Energy Efficient ITE	-	2,945		522		60,885		(6,942)		53,944	27.1285500%		14,634
0	Non Residential Energy Efficient Process Equipment Products	99	651,289		548,581		161,937		44,464		206,401	27.1285500%		55,993
1	Non Residential Smart Saver Performance Incentive	3	12,373		9,433		313,256		(34,940)		278,316	27.1285500%		75,503
2	Small Business Energy Saver	17,263	90,297,362		65,920,718		17,318,666		5,589,236		22,907,902	27.1285500%		6,214,582
3	Smart Energy in Offices	2,138	10,272,154		1,115,495		884,119		26,608		910,727	27.1285500%		247,067
4	Business Energy Report	3	42,398		722		126,219		-		126,219	27.1285500%		34,241
5	Total for Non-Residential Conservation Programs	76,158	437,398,260	\$	370,481,025		97,223,022	\$	31,439,103	\$	128,662,124		\$	34,904,168

7 Total Non-Residential Revenue Requirement	846,941	2,943,906	\$ 124,226,016	\$ 29,752,076	10,864,503	\$ 40,616,579	15.11562%	<u>\$ 6,139,448</u>
								41,043,615

Power Manager (Residential)	501,118	-	\$ 72,328,478	\$ 13,991,587	6,708,742	20,700,330		
EnergyWise for Business (Non-Residential)	5,453	2,943,906	2,770,718	2,475,377	33,964	2,509,341		
Power Share Call Option (Non-Residential)	-	-	-	-	-	-		
Power Share (Non-Residential)	340,369	-	49,126,820	13,285,111	4,121,797	17,406,908		
Total DSM	846,941	2,943,906	\$ 124,226,016	\$ 29,752,076	\$ 40,616,503	40,616,580	26.03457%	\$ 10,574,352
Total All Programs	1,033,884	934,365,890	663,495,616	192,059,952	54,472,631	246,532,584		66,436,377

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2019-89-E
Allocation Factor Year 2017

			<u>MWH</u>
Sales Allocator - 2016			
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	27.12855%

Demand Allocators - 2016			NC MW	SC MW	Total MW
7	Residential	Company Records	5,545,784	1,791,145	7,336,929
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420
9	Greenwood	Company Records	-	13,651	13,651
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000
11	Wholesale Peak Demand	Company Records			1,683,179
12	Total System Peak Demand	Line 10 + Line 11			18,087,179
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%		

Amended Year 2018 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2018 - December 31, 2018
Docket No. 2019-89-E
Calculation of Year 2018 True up of Shared Savings and Y1 Lost Revenues and Estimate Y2 and Y3 Lost Revenues

Residential Energy Efficiency Programs

Line		Estimate of Year 3 Lost Revenues	Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Year 2018
1	Residential EE Program Cost	Year 2018 Exh 2 (B * D)	\$ 15,283,486		\$ 5,717,424	\$ 21,000,910
2	Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D)	2,823,195		2,073,758	4,896,953
3	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 10	18,106,681		7,791,182	25,897,863
4	Residential DSM Program Cost	Year 2018 Exh 2 (B * E)	3,121,492		(36,918)	3,084,574
5	Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * E)	1,299,438		(120,575)	1,178,863
6	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 11	4,420,930		(157,493)	4,263,437
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3	587,633		(69,105)	518,528
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	23,115,244		7,564,584	30,679,828
9	Revenue-related taxes and regulatory fees factor		1.004468		1.004450	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	23,218,523		7,598,245	30,816,768
11	Residential Net Lost Revenues	R11 Exh 1 page 4 Line 84	\$ 3,658,997	2,340,939	(1,098,081)	8,078,743
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	3,658,997	2,340,939	6,500,164	38,895,511
13	Estimated Revenues Collected	R11 Exh 2 Line 5				33,785,855
14	Residential EE Revenue Requirement	Line 12 - Line 13	\$ 3,658,997			\$ 5,109,657
15	Estimated Interest to be Recovered	R11 Exh 4 page 2 Line 12				534,159
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15	\$ 3,658,997			\$ 5,643,816

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Estimate of Year 3 Lost Revenues	Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Year 2018
17	Non- Residential EE Program Cost	Year 2018 Exh 2 (B * D) Line 24	\$ 14,905,045		\$ (989,651)	\$ 13,915,394
18	Non-Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 24	5,806,479		1,107,249	6,913,728
19	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 24	20,711,524		117,599	20,829,123
20	Revenue-related taxes and regulatory fees factor		1.004468		1.004450	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	20,804,063		118,122	20,922,185
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 4 Line 100	\$ 4,251,946	4,168,069	510,686	6,692,077
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	4,251,946	4,168,069	628,808	27,614,262
24	Estimated Revenues Collected	R11 Exh 2 Line 14				26,105,951
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$ 4,251,946			\$ 1,508,311
26	Estimated Interest to be Recovered	R11 Exh 4 page 6 Line 12				246,016
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26	\$ 4,251,946			\$ 1,754,327
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 14	4,878,266,122			4,878,266,122
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100	0.0872			0.0360

Non-Residential DSM Programs

		Rider 9 Year 2018 Estimate	True-up to be Collected in Rider 11	Year 2018 Revenue Requirement True up
30	Non- Residential DSM Program Cost	\$ 4,294,311	\$ 595,319	\$ 4,889,630
31	Non-Residential DSM Earned Utility Incentive	1,787,668	81,051	1,868,719
32	Total DSM Program Cost and Incentive Components	6,081,979	676,370	6,758,349
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	808,421	13,543	821,964
34	Total DSM Revenue Requirement	6,890,400	689,913	7,580,313
35	Revenue-related taxes and regulatory fees factor	1.004468	1.004450	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	6,921,186	692,983	7,614,169
37	Estimated Revenues Collected			6,613,105
38	Non-Residential DSM Revenue Requirement			1,001,064
39	Estimated Interest Due			126,506
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest			\$ 1,127,570
41	Projected SC Non-Residential Sales (kWh)			5,966,243,960
42	SC Non-Residential DSM billing factor			0.0189

¹ Details outlining the change in the program cost and incentive component can be found in Year 2018 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 4. Year 2018 has been updated with most recent participation. Year 2 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Amended Year 2018 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-89-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

	A		B		C= A + B		D		E = C * D
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	Total Cost	Earned Utility Incentive	System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2018 Exhibit 4 Line 6)	SC Residential Revenue Requirement	
Residential Programs									
EE Programs									
1 Appliance Recycling	-	-	\$ -	\$ -	\$ -	\$ -	27.2269600%	\$ -	-
2 Energy Efficiency Education	1,148	4,889,354	3,328,408	1,984,212	154,583	2,138,795	27.2269600%	582,329	
3 Energy Efficient Appliances and Devices	32,802	195,212,962	164,890,816	42,585,486	14,065,113	56,650,598	27.2269600%	15,424,236	
4 Residential – Smart Saver Energy Efficiency Program	1,640	6,367,174	8,733,688	6,937,076	206,610	7,143,686	27.2269600%	1,945,009	
5 Income Qualified Energy Efficiency and Weatherization Assistance	726	5,211,991	3,712,579	6,466,549	-	6,466,549	27.2269600%	1,760,646	
6 Multi-Family Energy Efficiency	2,303	21,288,673	16,829,933	3,595,399	1,521,971	5,117,371	27.2269600%	1,393,305	
7 Energy Assessments	929	7,716,668	6,938,272	2,827,755	472,709	3,300,464	27.2269600%	898,616	
8 Total for Residential Conservation Programs	39,546	240,686,821	\$ 204,433,696	\$ 64,396,478	\$ 16,420,987	\$ 80,817,463		\$ 22,004,139	
9 My Home Energy Report (1)	81,409	320,613,567	\$ 26,342,313	\$ 12,736,300	1,564,691	14,300,992	27.2269600%	3,893,725	
10 Total Residential Conservation and Behavioral Programs	120,956	561,300,388	\$ 230,776,009	77,132,777	\$ 17,985,679	\$ 95,118,456		\$ 25,897,864	
							SC Residential Peak Demand Allocation Factor (Year 2018, Exhibit 4 Line 14)	C * D	
11 Total DSM Programs (2)	876,165	2,498,948	\$ 131,115,826	30,327,687	\$ 11,590,636	\$ 41,918,323	10.17082%	\$ 4,263,437	
12 Total Residential Revenue Requirement								30,161,301	
Non-Residential Programs									
EE Programs									
13 Non Residential Smart Saver Customer Technical Assessments	13	83,588	\$ 81,442	\$ 403,871	\$ (37,079)	\$ 366,791	27.2269600%	\$ 99,866	
14 Non Residential Smart Saver Custom	4,054	30,333,040	28,227,381	6,039,708	2,551,582	8,591,290	27.2269600%	2,339,147	
15 Non Residential Smart Saver Energy Efficient Food Service Products	106	1,151,114	891,574	234,375	75,578	309,953	27.2269600%	84,391	
16 Non Residential Smart Saver Energy Efficient HVAC Products	893	2,908,386	3,470,605	1,615,730	213,311	1,829,041	27.2269600%	497,992	
17 Non Residential Smart Saver Energy Efficient Lighting Products	31,537	178,360,156	177,833,548	25,802,953	17,483,518	43,286,472	27.2269600%	11,785,590	
18 Non Residential Energy Efficient Pumps and Drives	421	2,669,016	1,966,173	276,631	194,297	470,929	27.2269600%	128,220	
19 Non Residential Energy Efficient ITEE	-	17,639	3,605	36,201	(3,748)	32,453	27.2269600%	8,836	
20 Non Residential Energy Efficient Process Equipment Products	75	331,222	276,076	67,107	24,031	91,138	27.2269600%	24,814	
21 Non Residential Smart Saver Performance Incentive	168	3,271,186	2,010,621	475,950	176,510	652,460	27.2269600%	177,645	
22 Small Business Energy Saver	13,374	76,696,523	56,980,827	15,941,553	4,719,517	20,661,070	27.2269600%	5,625,381	
23 Smart Energy in Offices	310	1,488,592	175,126	214,800	(4,563)	210,237	27.2269600%	57,241	
24 Business Energy Report	-	-	-	-	-	-	27.2269600%	-	
25 Total for Non-Residential Conservation Programs	50,950	297,310,461	\$ 271,917,178	51,108,880	\$ 25,392,954	\$ 76,501,834		\$ 20,829,123	
							SC Residential Peak Demand Allocation Factor (Year 2018, Exhibit 4 Line 15)	C * D	
26 Total DSM Programs	876,165	2,498,948	\$ 131,115,826	\$ 30,327,687	11,590,636	\$ 41,918,323	16.12266%	\$ 6,758,349	
27 Total Non-Residential Revenue Requirement								27,587,471	
Total DSM Program Breakdown									
28 Power Manager (Residential)	535,418	-	\$ 79,032,561	\$ 14,385,126	7,434,455	21,819,581			
29 EnergyWise for Business (Non-Residential)	8,117	2,498,948	2,983,917	3,053,547	(8,007)	3,045,539			
30 Power Share Call Option (Non-Residential)	-	-	-	-	-	-			
31 Power Share (Non-Residential)	332,631	-	49,099,348	12,889,014	4,164,188	17,053,202			
32 Total DSM	876,165	2,498,948	\$ 131,115,826	\$ 30,327,687	\$ 11,590,636	41,918,324	26.29348%	\$ 11,021,786	
33 Total All Programs	1,048,071	861,109,797	633,809,012	158,569,344	54,969,269	213,538,614		57,748,772	

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-89-E
Actual Existing DSM Program Costs - Year 2018

1 Actual total IS/SG credits to be paid for native load programs	Line 9	Year 2018		
		\$ 5,564,267		
			Residential	Non-residential
2 SC retail allocation factor - system peak demand	Year 2018 Exhibit 4, Line 16, 17		9.31889%	14.77219%
3 SC retail share IS/SG program costs	Line 1 * Line 2	\$	518,528	\$ 821,964

PROGRAM	Jan - Dec 2018 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$ 3,752,939
5 STANDBY GENERATOR PAYMENTS	332,085
6 WHOLESALE A/C LOAD CONTROL CREDITS	341,504
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS	1,181,392
8 Wholesale Penalties	(43,652)
9 TOTAL CREDITS	\$ 5,564,267

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-89-E
Allocation Factor Year 2018

			<u>MWH</u>
Sales Allocator - 2017			
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	27.22696%

Demand Allocators - 2017			NC MW	SC MW	Total MW
7	Residential	Company Records	5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records	-	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand	Company Records			1,443,703
12	Total System Peak Demand	Line 10 + Line 11			17,235,703
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.29348%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.17082%		
15	SC Non-residential	Line 8, SC / Line 10 Total	16.12266%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.31889%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.77219%		

Amended Year 2018 Exhibit 5

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-89-E
Actual Program Costs - Year 2018

	System Costs Months of January 1, 2018 - December 31, 2018	2018 Audit Adjustments	Residential	Non-Residential
Energy Efficiency (EE) Programs:				
1 My Home Energy Report	\$ 13,220,883	(484,583)	12,736,300	
2 Energy Assessments	2,827,387	368	2,827,755	
3 Residential – Smart Saver Energy Efficiency Program	6,936,157	919	6,937,076	
4 Energy Efficient Appliances and Devices Income Qualified Energy Efficiency and Weatherization	42,579,851	5,635	42,585,486	
5 Assistance	6,465,702	847	6,466,549	
6 Multi-Family Energy Efficiency	3,594,938	461	3,595,399	
7 Appliance Recycle Program	-	-	-	
8 Energy Efficiency Education	1,983,960	252	1,984,212	
9 Nonresidential Smart Saver Performance Incentives	475,901	49		475,950
10 Smart Saver Custom Technical Assessments	403,829	42		403,871
11 Smart Saver Custom	6,039,114	594		6,039,708
12 Smart Saver Efficient Food Service Products	234,351	24		234,375
13 Smart Saver Efficient HVAC Products	1,615,564	166		1,615,730
14 Smart Saver Efficient Lighting Products	25,800,299	2,654		25,802,953
15 Nonresidential Energy Efficient Pumps and Drives	276,603	28		276,631
16 Nonresidential Energy Efficient ITEE	36,197	4		36,201
17 Nonresidential Energy Efficient Process Equipment Products	67,100	7		67,107
18 Small Business Energy Saver	15,939,918	1,635		15,941,553
19 Smart Energy in Offices	214,783	17		214,800
20 Business Energy Report	-			-
21 Subtotal EE Program Costs	\$ 128,712,537		\$ 77,132,778	\$ 51,108,880
Demand-Side Management (DSM) Programs:				
22 Power Manager	\$ 14,383,845	1,281	\$ 14,385,126	
23 EnergyWise for Business	3,053,243	304		3,053,547
24 Power Share	12,887,867	1,147		12,889,014
25 Subtotal DSM Program Costs	\$ 30,324,955		\$ 14,385,126	\$ 15,942,561
26 Total EE & DSM Program Costs - Year 2018	\$ 159,037,492	(468,147)	\$ 91,517,904	\$ 67,051,441

Year 2018 Exhibit 6

Duke Energy Carolinas
Changes to DSM/EE Cost Recovery Vintage 2018 True Up January 1, 2018 - December 31, 2018
Changes from Prior Filing Due to Application of M&V and Participation
System kWh and kW Impacts Net Free Riders at the Plant

Residential Programs

Program Name	Filed in Docket 2017-65-E		Filed in Docket 2019-XXXX-E		Overall Variance		2017-65-E	2019-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW	System Participation	Participation		kWh	kW	kWh	kW	kWh	kW	kWh	kW
Energy Efficiency Education Program for Schools	5,604,364	1,316	4,889,354	1,148	(715,010)	(168)	3,533,486	10,242,945	6,709,459	(715,010)	(168)	-	-	-	-	(715,010)	(168)
Energy Efficient Appliances and Devices	97,729,231	11,726	195,316,844	32,803	97,587,613	21,077	9,480	25,293	15,813	146,460,881	18,352	7,685,639	14	(56,558,907)	2,711	97,587,613	21,077
Residential – Smart Saver Energy Efficiency Program	5,359,616	1,577	6,727,882	1,644	1,368,266	67	10,426	10,681	255	3,844,491	1,175	(1,277,881)	(581)	(1,198,344)	(527)	1,368,266	67
Income Qualified Energy Efficiency and Weatherization Assistance	5,287,477	820	5,211,991	726	(75,487)	(95)	370,882	430,474	59,592	(557,065)	(80)	-	-	481,578	(15)	(75,487)	(95)
Multi-Family Energy Efficiency	22,582,141	2,197	21,309,576	2,167	(1,272,565)	(30)	59,080	55,978	(3,102)	(2,699,719)	(204)	1,427,154	174	-	-	(1,272,565)	(30)
Energy Assessments	7,435,992	1,145	7,716,668	929	280,676	(216)	1,354,138	1,432,263	78,125	984,660	172	-	-	(703,984)	(388)	280,676	(216)
My Home Energy Report	304,386,954	77,277	320,613,567	81,409	16,226,613	4,132	473,837	504,071	30,234	16,226,613	4,132	-	-	-	-	16,226,613	4,132
PowerManager	-	503,304	-	535,418	-	32,114	-	-	-	-	32,114	-	-	-	-	-	32,114
Residential Programs Total	448,385,775	599,362	561,785,881	656,243	113,400,106	56,881	5,811,330	12,701,705	6,890,375	163,544,851	55,493	7,834,912	(393)	(57,979,657)	1,782	113,400,106	56,881

Non-Residential Programs

Program Name	Filed in Docket 2017-65-E		Filed in Docket 2019-XXXX-E		Overall Variance		2017-65-E	2019-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW	System Participation	Participation		kWh	kW	kWh	kW	kWh	kW	kWh	kW
Non Residential Smart Saver Custom Technical Assessments	20,322,216	2,320	83,588	13	(20,238,628)	(2,307)	62,136	23,345	(38,791)	-	-	(20,238,628)	(2,307)	-	-	(20,238,628)	(2,307)
Non Residential Smart Saver Custom	95,315,609	10,881	30,333,040	4,054	(64,982,570)	(6,827)	453	2,910	(6,827)	-	-	(64,982,570)	(6,827)	-	-	(64,982,570)	(6,827)
Non Residential Smart Saver Energy Efficient Food Service Products	817,239	120	1,151,114	106	333,875	(14)	5,124,564	2,189,324	(2,935,240)	723,121	48	421,245	48	(810,491)	(107)	333,875	(14)
Non Residential Smart Saver Energy Efficient HVAC Products	4,345,576	2,007	2,908,386	893	(1,437,191)	(1,113)	14,535,813	2,854,234	(11,681,579)	23,758	156	(973,126)	(1,102)	(487,822)	(169)	(1,437,191)	(1,113)
Non Residential Smart Saver Energy Efficient Lighting Products	92,350,939	12,435	178,360,156	31,537	86,009,217	19,102	2,750	2,480	(270)	53,261,333	4,160	(2,625,547)	291	35,373,431	14,651	86,009,217	19,102
Non Residential Energy Efficient Pumps and Drives Products	2,067,770	305	2,669,016	421	601,246	115	15,935	280	(15,655)	11,845	(1)	(253,717)	(17)	843,118	133	601,246	115
Non Residential Energy Efficient ITEE	3,823,152	0	17,639	-	(3,805,513)	(0)	1,657	3,339	(1,128,795)	-	-	(2,673,638)	(0)	(3,080)	-	(3,805,513)	(0)
Non Residential Energy Efficient Process Equipment Products	316,290	31	3,271,186	75	14,932	44	6,174,765	118	(6,174,647)	218,900	22	(22,046)	(20)	18,078	42	14,932	44
Non Residential Smart Saver Performance Incentive	5,706,017	651	3,271,186	168	(2,434,832)	(484)	47,462,400	4,194,003	(43,268,397)	-	-	(2,434,832)	(484)	-	-	(2,434,832)	(484)
Smart Energy in Offices	41,339,434	8,604	1,488,592	310	(39,850,843)	(8,294)	75,800,000	73,493,029	(2,306,971)	(10,380,698)	(2,161)	(27,305,788)	(5,683)	(2,164,357)	(450)	(39,850,843)	(8,294)
Small Business Energy Saver	93,135,919	17,124	76,696,523	13,374	(16,439,395)	(3,750)	14,013	-	(2,718,672)	(2,304)	-	-	(13,720,723)	(1,447)	(16,439,395)	(3,750)	
Business Energy Report	5,051,658	353	-	-	(5,051,658)	(353)	6,863	11,462	4,598	(5,051,658)	(353)	-	-	-	-	(5,051,658)	(353)
EnergyWise for Business	3,530,072	17,034	2,498,948	8,117	(1,031,124)	(8,917)	365,308	313,157	(52,151)	3,560,876	4,835	-	-	(4,592,000)	(13,752)	(1,031,124)	(8,917)
PowerShare	-	388,025	-	332,631	-	(55,394)	-	-	-	-	(55,394)	-	-	-	-	-	(55,394)
Non-Residential Programs Total	368,121,892	459,890	299,809,409	391,698	(68,312,483)	(68,192)	149,566,656	83,087,680	(66,478,976)	38,520,009	(50,992)	(121,288,645)	(16,100)	14,456,153	(1,100)	(68,312,483)	(68,192)
Total Residential and Non-Residential Programs	816,507,667	1,059,251	861,595,290	1,047,941	45,087,623	(11,310)	155,377,986	95,789,386	(50,588,600)	202,064,860	4,501	(113,453,734)	(16,493)	(43,523,504)	682	45,087,623	(11,310)

NOTE - The actual per unit impacts are reflective of the following EM&V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Non Residential Smart Saver Energy Efficient Food Service Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Smart Saver Energy Efficient HVAC Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Smart Saver Energy Efficient Lighting Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient Pumps and Drives Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient ITEE	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient Process Equipment Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver* Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Energy Efficient Appliances and Devices	2019-XX-E	Exhibit C - Residential Energy Efficient Appliances and Devices – Retail Lighting: 2016-2017	4/1/2017
Residential – Smart Saver Energy Efficiency Program	2019-XX-E	Exhibit F - Residential Smart Saver* Energy Efficiency - HVAC: 2016-2017	10/1/2017
Income Qualified EE and Weatherization Program	2019-XX-E	Exhibit G - Income-Qualified Energy Efficiency and Weatherization Assistance: 2015-2016	1/1/2015
Small Business Energy Saver	2019-XX-E	Exhibit H - Small Business Energy Saver: 2016-2017	7/1/2017
Energy Efficient Appliances and Devices	2019-XX-E	Exhibit J - Residential Energy Efficient Appliances and Devices – Online Savings Store: 2015-2017	2/1/2018
Energy Assessments	2019-XX-E	Exhibit K - Duke Energy Carolinas Residential Energy Assessments Program: 2016-2017	5/1/2017
EnergyWise for Business	2019-XX-E	Exhibit L - EnergyWise for Business: 2017	1/1/2018

Amended Year 2019 Exhibit 1

Duke Energy Carolinas
Docket No. 2019-89-E
Calculation of Year 2019 Estimate of Lost Revenues Year 2

Residential Energy Efficiency Programs

Line	Reference	Year 2 Projections
1 Residential Net Lost Revenues - Year 2	R11 Exh 1 page 4 Line 115	\$2,189,992
2 Projected SC Residential Sales (kWh)	R11 Exh 3 Page 1 Line 3	6,411,363,511
3 SC Residential EE Billing Factor (Cents/kWh)	Line 1 / Line 2	0.0342

Non-Residential Energy Efficiency Programs

Line	Reference	Year 2 Projections
4 Non-Residential Net Lost Revenues - Year 2	R11 Exh 1 page 4 Line 129	\$5,687,530
5 Projected SC Non-Residential EE Sales (kWh)	R11 Exh 3 Page 1 Line 16	4,843,914,753
6 SC Non-Residential EE Billing Factor (Cents/kWh)	Line 6 / Line 7	0.1174

Amended Year 2020 Exhibit 1, Page 1

Duke Energy Carolinas
Docket No. 2019-89-E
Calculation of Year 2020 Estimate of Earned Utility Savings and Lost Revenues Year 1

Energy Efficiency Programs		
Line	Reference	Year 1
1 Residential EE Program Cost	Year 2020 Exh 2 (B * E) Line 10	\$12,563,185
2 Residential EE Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 10	1,395,981
3 Total EE Program Cost and Incentive Components	Year 2020 Exh 2 Line 10	13,959,166
4 Residential DSM Program Cost	Year 2020 Exh 2 (B * E) Line 11	3,872,361
5 Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 11	1,319,578
6 Total DSM Program Cost and Incentive Components	Year 2020 Exh 2 Line 11	5,191,939
7 Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3	518,528
8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	19,669,633
9 Revenue-related taxes and regulatory fees factor		1.004450
10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	19,757,158
11 Residential Net Lost Revenues	R11 Exh 1 page 6 Line 257	5,839,031
12 Total Residential EE Revenue Requirement	Line 10 + Line 11	25,596,189
13 Projected SC Residential Sales (kWh)	R11 Exh 3 Page 1 Line 3	6,411,363,511
14 SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.3992

Duke Energy Carolinas
Docket No. 2019-89-E
Calculation of Year 2020 Estimated Earned Utility Savings and Year 1 Lost Revenue Estimate

Non-Residential Energy Efficiency Programs

Line	Reference	Year 1
1 Non- Residential EE Program Cost	Year 2020 Exh 2 (B * E) Line 25	\$14,119,560
2 Non-Residential EE Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 25	4,092,959
3 Total EE Program Cost and Incentive Components	Year 2020 Exh 2 Line 25	18,212,519
4 Revenue-related taxes and regulatory fees factor		1.0044498
5 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	18,293,562
6 Non-Residential Net Lost Revenues	R11 Exh 1 p 6 Line 278	1,848,976
7 Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	20,142,538
8 Projected SC Non-Residential Sales (kWh)	R11 Exh 3 Page 1 Line 18	4,843,914,753
9 SC Non-Residential EE billing factor (Cents/kWh)	Line 7 / Line 8 *100	0.4158

Non- Residential DSM Programs

		Year 1
10 Non-Residential DSM Program Cost	Year 2020 Exh 2 (B * E) Line 26	\$6,138,419
11 Non-Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 26	2,091,779
12 Total Non-Residential DSM Program Cost and Incentive Components	Year 2020 Exh 2 Line 26	8,230,198
13 Non-Residential Existing DSM Program Revenue Requirement	Year 2018 Exhibit 3 Line 3	821,964
14 Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	9,052,163
15 Revenue-related taxes and regulatory fees factor		1.0044498
16 Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	9,092,443
17 Projected SC Non-Residential Sales (kWh)	R11 Exh 3 p 1 Line 19	5,964,865,760
18 SC Non-Residential DSM billing factor	Line 16 / Line 17 * 100	0.1524

Amended Year 2020 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2020 - December 31, 2020
Docket Number 2019-89-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

	A	B	(A-B)*11.5% = C	D= B + C	E	F = D * E
			</			

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2020 - December 31, 2020
Docket Number 2019-89-E
Allocation Factor Estimate Year 2020

			<u>MWH</u>
Sales Allocator - 2017			
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	27.22696%

Demand Allocators - 2017			NC MW	SC MW	Total MW
7	Residential	Company Records	5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records	-	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand	Company Records			1,443,703
12	Total System Peak Demand	Line 10 + Line 11			17,235,703
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.29348%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.17082%		
15	SC Non-residential	Line 8, SC / Line 10 Total	16.12266%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.31889%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.77219%		

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Year 2015		2014	2015 (1/2 year)	2016 ^(a)	2017 ^(a)	2018	2019	2020	Total
Residential									
1	Appliance Recycling		\$ 42,084	\$ 78,530	\$ 78,299	\$ 36,508		\$	235,421
2	Energy Efficiency Education Program for Schools		22,398	64,563	64,374	42,207			193,543
3	Energy Efficient Appliances and Devices		1,243,191	2,082,649	2,076,546	841,756			6,244,143
4	HVAC Energy Efficiency		38,085	68,587	68,387	30,579			205,637
5	Income Qualified Energy Efficiency and Weatherization Assistance		27,717	49,210	49,066	21,545			147,539
6	Multi-Family Energy Efficiency		83,286	174,419	173,914	91,399			523,019
7	My Home Energy Report		2,494,338	-	-	-			2,494,338
8	Energy Assessments		112,623	191,847	191,282	79,395			575,146
9	Total Lost Revenues		\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,143,389		\$	10,618,785
10	Found Residential Revenue		-	-	-	-			-
11	Net Lost Residential Revenue		\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,143,389		\$	10,618,785
Non-Residential									
12	Non Residential Smart Saver Custom Technical Assessments		\$ -	\$ -	\$ -	\$ -		\$	-
13	Non Residential Smart Saver Custom		161,118	297,731	298,222	138,298			895,369
14	Non Residential Smart Saver Energy Efficient Food Service Products		8,672	14,608	14,626	5,914			43,821
15	Non Residential Smart Saver Energy Efficient HVAC Products		25,013	41,466	41,605	16,560			124,645
16	Non Residential Smart Saver Energy Efficient Lighting Products		503,262	837,360	810,323	320,574			2,471,520
17	Non Residential Energy Efficient Pumps and Drives Products		21,482	30,380	30,466	8,902			91,230
18	Non Residential Energy Efficient ITEE		86	99	99	13			296
19	Non Residential Energy Efficient Process Equipment Products		-	-	-	-			-
20	Small Business Energy Saver		687,783	1,384,241	1,385,040	692,603			4,149,667
21	Smart Energy in Offices		70,504	24,200	-	-			94,705
22	EnergyWise for Business		112	1,342	1,342	1,218			4,014
23	Total Lost Revenues		\$ 1,478,033	\$ 2,631,427	\$ 2,581,724	\$ 1,184,082		\$	7,875,265
24	Found Non-Residential Revenue		-	72	72	335			480
25	Net Lost Residential Revenue		1,478,033	2,631,354	2,581,651	1,183,746			7,874,785

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11 Exhibit 1, Page 2

	Year 2016	2014	2015	2016 (1/2 year) ^(a)	2017 ^(a)	2018	2019	2020	Total
Residential									
26 Appliance Recycling				\$ 1,156	\$ 2,445	\$ 2,453	\$ 1,293		\$ 7,347
27 Energy Efficiency Education Program for Schools				49,651	113,539	\$ 113,901	\$ 64,034		341,126
28 Energy Efficient Appliances and Devices				912,502	1,984,438	\$ 1,990,624	\$ 1,074,622		5,962,187
29 HVAC Energy Efficiency				25,732	65,424	\$ 65,633	\$ 39,768		196,557
30 Income Qualified Energy Efficiency and Weatherization Assistance				30,781	65,434	\$ 65,637	\$ 34,744		196,596
31 Multi-Family Energy Efficiency				107,545	232,892	\$ 233,717	\$ 125,659		699,814
32 My Home Energy Report				3,249,461	-	\$ -	\$ -		3,249,461
33 Energy Assessments				80,627	141,718	\$ 142,164	\$ 61,328		425,837
34 Total Lost Revenues				\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 1,401,449		\$ 11,078,925
35 Found Residential Revenue				-	-	-	-		-
36 Net Lost Residential Revenue				\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 1,401,449		\$ 11,078,925
Non-Residential									
		2014	2015	2016 (1/2 year) ^(a)	2017 ^(a)	2018	2019	2020	Total
37 Smart Saver® for Non-Residential Custom Assessments				\$ 12,263	\$ 71,091	\$ 73,627	\$ 58,868		\$ 215,849
38 Smart Saver® for Non-Residential Custom Incentives				101,444	182,977	\$ 184,357	\$ 81,340		550,117
39 Smart Saver® for Non-Residential Customers - Energy Efficient Food Service Products				23,846	40,687	\$ 41,424	\$ 72,782		178,739
40 Smart Saver® for Non-Residential Customers - HVAC				804,138	1,793,295	\$ 1,779,130	\$ 16,890		4,393,453
41 Smart Saver® for Non-Residential Customers - Energy Efficient Lighting Products				9,796	23,804	\$ 24,007	\$ 981,631		1,039,238
42 Smart Saver® for Non-Residential Customers - Pumps and Drives Products				34	79	\$ 78	\$ 13,977		14,169
43 Smart Saver® for Non-Residential Customers - Energy Efficient ITEE				1,882	2,731	\$ 2,725	\$ 45		7,383
44 Smart Saver® for Non-Residential Customers - Energy Efficient Process Equipment Products				-	-	\$ -	\$ 851		851
45 Smart Saver® for Non-Residential Customers - Small Business Energy Saver				559,122	1,134,713	\$ 1,129,191	\$ 575,153		3,398,179
46 Smart Saver® for Non-Residential Customers - Smart Energy in Office				70,822	24,541	\$ -	\$ -		95,363
47 Business Energy Report				-	-	\$ -	\$ -		-
48 EnergyWise for Business				5,895	11,102	\$ 10,998	\$ 5,207		33,203
49 Total Lost Revenues				\$ 1,608,722	\$ 3,377,313	\$ 3,337,388	\$ 1,806,744		\$ 10,130,167
50 Found Non-Residential Revenue				2,631	2,404	2,404	497		7,936
51 Net Lost Residential Revenue				1,606,091	3,374,909	3,334,984	1,806,247		10,122,231

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Amended Rider 11 Exhibit 1, Page 3

	Year 2017	2014	2015	2016	2017 (1/2 year) ^(a)	2018	2019	2020	Total
Residential									
52 Appliance Recycling					\$ -	\$ -	\$ -	\$ -	-
53 Energy Efficiency Education Program for Schools					55,350	100,919	100,612	21,729	278,610
54 Energy Efficient Appliances and Devices					1,245,721	2,448,502	2,521,429	574,577	6,790,229
55 Residential – Smart Saver Energy Efficiency Program					53,370	92,335	111,714	18,554	275,972
56 Income Qualified Energy Efficiency and Weatherization Assistance					45,063	76,672	76,015	15,083	212,832
57 Multi-Family Energy Efficiency					128,050	209,178	208,610	38,333	584,171
58 My Home Energy Report					3,641,670	-	-	-	3,641,670
59 Energy Assessments					84,808	150,158	157,129	31,151	423,246
60 Total Lost Revenues					\$ 5,254,032	\$ 3,077,763	\$ 3,175,509	\$ 699,427	\$ 12,206,730
61 Found Residential Revenue					-	-	-	-	-
62 Net Lost Residential Revenue					\$ 5,254,032	\$ 3,077,763	\$ 3,175,509	\$ 699,427	\$ 12,206,730
Non-Residential									
63 Non Residential Smart Saver Custom Technical Assessments					\$ 98,727	\$ 147,311	\$ 146,303	\$ 20,822	\$ 413,162
64 Non Residential Smart Saver Custom					346,582	489,807	505,535	61,211	1,403,134
65 Non Residential Smart Saver Energy Efficient Food Service Products					5,578	8,350	16,296	1,205	31,429
66 Non Residential Smart Saver Energy Efficient HVAC Products					29,059	50,322	58,501	9,385	147,267
67 Non Residential Smart Saver Energy Efficient Lighting Products					2,276,326	3,829,612	3,290,258	686,314	10,082,511
68 Non Residential Energy Efficient Pumps and Drives Products					9,540	19,793	14,034	4,433	47,800
69 Non Residential Energy Efficient ITEE					20	34	40	6	99
70 Non Residential Energy Efficient Process Equipment Products					4,423	15,012	13,895	4,611	37,940
71 Non Residential Smart Saver Performance Incentive					-	-	-	-	-
72 Small Business Energy Saver					832,006	1,623,149	1,781,203	352,281	4,588,640
73 Smart Energy in Offices					73,273	27,109	-	-	100,382
74 EnergyWise for Business					-	-	38,661	11,165	49,826
75 Business Energy Report					13,042	38,047	-	-	51,089
76 Total Lost Revenues					\$ 3,688,576	\$ 6,248,546	\$ 5,864,726	\$ 1,151,434	\$ 16,953,281
77 Found Non-Residential Revenue					-	-	-	-	-
78 Net Lost Residential Revenue					3,688,576	6,248,546	5,864,726	1,151,434	16,953,281

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Amended Rider 11 Exhibit 1, Page 4

	Year 2018	2014	2015	2016	2017	2018 (1/2 year) ^(a)	2019	2020	Total
Residential									
79 Appliance Recycling						\$ -	\$ -	\$ -	\$ -
80 Energy Efficiency Education Program for Schools						38,804	110,566	73,035	222,405
81 Energy Efficient Appliances and Devices						1,525,192	1,630,729	3,150,630	6,306,552
82 Residential – Smart Saver Energy Efficiency Program						41,873	52,279	75,085	169,236
83 Income Qualified Energy Efficiency and Weatherization Assistance						51,671	103,074	73,923	228,669
84 Multi-Family Energy Efficiency						113,699	308,061	157,691	579,452
85 My Home Energy Report						3,890,220	-	-	3,890,220
86 Energy Assessments						76,345	136,229	128,633	341,207
87 Total Lost Revenues						\$ 5,737,804	\$ 2,340,939	\$ 3,658,997	\$ 11,737,741
88 Found Residential Revenue						-	-	-	-
89 Net Lost Residential Revenue						\$ 5,737,804	\$ 2,340,939	\$ 3,658,997	\$ 11,737,741
Non-Residential									
90 Non Residential Smart Saver Custom Technical Assessments						\$ 1,799	\$ 248,320	\$ 1,853	\$ 251,973
91 Non Residential Smart Saver Custom						130,273	1,048,797	338,320	1,517,390
92 Non Residential Smart Saver Energy Efficient Food Service Products						7,117	10,033	28,894	46,045
93 Non Residential Smart Saver Energy Efficient HVAC Products						18,870	62,468	47,320	128,658
94 Non Residential Smart Saver Energy Efficient Lighting Products						1,851,457	1,161,935	2,902,216	5,915,608
95 Non Residential Energy Efficient Pumps and Drives Products						1,940	31,949	10,129	44,019
96 Non Residential Energy Efficient ITEE						69	53,766	294	54,129
97 Non Residential Energy Efficient Process Equipment Products						2,580	3,434	4,768	10,782
98 Non Residential Smart Saver Performance Incentive						4,071	169,761	23,363	197,196
99 Small Business Energy Saver						453,154	1,354,356	840,969	2,648,480
100 Smart Energy in Offices						19,846	-	-	19,846
101 EnergyWise for Business						32,831	23,250	53,818	109,898
102 Business Energy Report						-	-	-	-
103 Total Lost Revenues						\$ 2,524,007	\$ 4,168,069	\$ 4,251,946	\$ 10,944,022
104 Found Non-Residential Revenue						-	-	-	-
105 Net Lost Residential Revenue						2,524,007	4,168,069	4,251,946	10,944,022

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Amended Rider 11, Exhibit 1 Page 5

	Year 2019	2014	2015	2016	2017	2018	2019 (1/2 year) ^(a)	2020	Total
Residential									
106 Energy Efficiency Education Program for Schools							50,314	105,163	155,477
107 Energy Efficient Appliances and Devices							918,462	1,459,366	2,377,829
108 Residential – Smart Saver Energy Efficiency Program							54,686	62,457	117,143
109 Income Qualified Energy Efficiency and Weatherization Assistance							45,898	80,297	126,195
110 Multi-Family Energy Efficiency							214,215	372,182	586,398
111 My Home Energy Report							5,369,925	-	5,369,925
112 Energy Assessments							77,065	110,526	187,591
113 Total Lost Revenues							\$ 6,730,566	\$ 2,189,992	\$ 8,920,558
114 Found Residential Revenue							-	-	-
115 Net Lost Residential Revenue							\$ 6,730,566	\$ 2,189,992	\$ 8,920,558
Non-Residential									
		2014	2015	2016		2018	2019 (1/2 year) ^(a)	2020	Total
116 Non Residential Smart Saver Custom Technical Assessments							\$ 69,778	\$ 150,598	\$ 220,375
117 Non Residential Smart Saver Custom							417,092	962,152	1,379,244
118 Non Residential Smart Saver Energy Efficient Food Service Products							127,411	116,637	244,048
119 Non Residential Smart Saver Energy Efficient HVAC Products							173,259	296,493	469,751
120 Non Residential Smart Saver Energy Efficient Lighting Products							1,433,533	2,458,469	3,892,002
121 Non Residential Energy Efficient Pumps and Drives Products							80,276	233,525	313,801
122 Non Residential Energy Efficient ITEE							82,559	139,954	222,513
123 Non Residential Energy Efficient Process Equipment Products							12,856	31,112	43,967
124 Non Residential Smart Saver Performance Incentive							147,714	270,378	418,093
125 Small Business Energy Saver							590,741	991,682	1,582,423
126 EnergyWise for Business							23,424	36,531	59,955
127 Total Lost Revenues							\$ 3,158,643	\$ 5,687,530	\$ 8,846,174
128 Found Non-Residential Revenue							-	-	-
129 Net Lost Residential Revenue							3,158,643	5,687,530	8,846,174

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-89-E
South Carolina Lost Revenues Vintage Year 2014-2020

Amended Rider 11, Exhibit 1 Page 6

	Year 2020	2014	2015	2016	2017	2018	2019	2020 (1/2 year) ^(a)	Total
Residential									
130	Energy Efficiency Education Program for Schools							56,950	56,950
131	Energy Efficient Appliances and Devices							426,394	426,394
132	Residential – Smart Saver Energy Efficiency Program							93,938	93,938
133	Income Qualified Energy Efficiency and Weatherization Assistance							44,693	44,693
134	Multi-Family Energy Efficiency							207,409	207,409
135	My Home Energy Report							4,942,558	4,942,558
136	Energy Assessments							67,088	67,088
137	Total Lost Revenues							\$ 5,839,031	\$ 5,839,031
138	Found Residential Revenue							-	-
139	Net Lost Residential Revenue							5,839,031	5,839,031
Non-Residential									
		2014	2015	2016	2017	2018	2019	2020 (1/2 year) ^(a)	Total
140	Non Residential Smart Saver Custom Technical Assessments							\$ 65,403	\$ 65,403
141	Non Residential Smart Saver Custom							495,115	495,115
142	Non Residential Smart Saver Energy Efficient Food Service Products							20,065	20,065
143	Non Residential Smart Saver Energy Efficient HVAC Products							12,874	12,874
144	Non Residential Smart Saver Energy Efficient Lighting Products							648,966	648,966
145	Non Residential Energy Efficient Pumps and Drives Products							22,428	22,428
146	Non Residential Energy Efficient ITEE							1,450	1,450
147	Non Residential Energy Efficient Process Equipment Products							2,621	2,621
148	Non Residential Smart Saver Performance Incentive							165,852	165,852
149	Small Business Energy Saver							392,216	392,216
150	EnergyWise for Business							21,986	21,986
151	Total Lost Revenues							\$ 1,848,976	\$ 1,848,976
152	Found Non-Residential Revenue							-	-
153	Net Lost Residential Revenue							1,848,976	1,848,976

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Rider 11 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2019
Docket Number 2019-89-E
DSM/EE Actual Revenues Collected from Years 2015 - 2018 (By Vintage)
and Estimated 2019 Collections from Rider 10 (By Vintage)

			Actual 2015	Actual 2016	Actual 2017 ¹	Actual 2018		Estimated 2019	Total Revenue Estimated Collected through 2019
Line			Rider 6	Rider 7	Rider 8	Rider 9	Actuals Total	Rider 10	
	New Mechanism								
Residential									
1	EE and DSM	2015	16,272,294	5,212,244	3,566,456	2,555,389	27,606,383	141,325	27,747,708
2	EE and DSM	2016		18,936,713	4,209,049	8,640,262	31,786,024	1,848,972	33,634,996
3	EE and DSM	2017			22,373,744	1,734,312	24,108,055	13,814,256	37,922,311
4	EE and DSM	2018				31,444,916	31,444,916	2,340,939	33,785,855
5	EE and DSM	2019					-	28,687,449	28,687,449
6	Interest	2015			355,176	167,752	522,928	58,748	581,676
7	Interest	2016			-	729,500	729,500	237,555	967,055
8	Interest	2017					-	934,494	934,494
Non-Residential									
9	EE	2015	5,475,152	4,020,808	9,438,922	1,828,265	20,763,147	1,872,527	22,635,674
10	EE	2016		14,145,231	5,235,479	11,569,790	30,950,500	2,272,717	33,223,217
11	EE	2017			17,081,335	4,428,890	21,510,225	28,326,436	49,836,661
12	EE	2018				20,670,345	20,670,345	5,435,606	26,105,951
13	EE	2019					-	22,270,253	22,270,253
14	EE Interest	2015			1,046,313	378,146	1,424,459	209,721	1,634,180
15	EE Interest	2016			-	1,152,892	1,152,892	329,720	1,482,612
16	EE Interest	2017					-	1,941,096	1,941,096
17	DSM	2015	5,257,163	1,409,288	579,530	87,728	7,333,709	143,168	7,476,877
18	DSM	2016		5,730,973	687,354	37,334	6,455,661	30,792	6,486,453
19	DSM	2017			6,368,636	137,133	6,505,770	631,848	7,137,618
20	DSM	2018				6,299,502	6,299,502	313,603	6,613,105
21	DSM	2019					-	7,209,874	7,209,874
22	DSM Interest	2015			178,893	32,129	211,022	18,364	229,386
23	DSM Interest	2016			-	54,403	54,403	2,981	57,384
24	DSM Interest	2017					-	66,055	66,055
25 Total Revenue Collected			27,004,609	61,299,043	71,275,035	91,948,686	81,837,397	119,186,437	359,470,994

¹ Actual 2015, 2016 and 2017 Revenue Source: Rider 10 Exhibit 2 Docket 2018-72-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 10.

² Estimated 2019 Revenue Source: R10 Exh 2 page 2.

In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-89-E
Forecasted kWh Sales for Years 2015-2020

Fall 2018 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2020 Sales	Factor to Exclude Greenwood Sales from Forecast	2018 MWh Usage	Percent to Total
1 Residential	Company Records	6,454,573,005	Total SC Residential Sales	6,953,474	
2 Factor to exclude Greenwood	see calc. to right	99.33056%	Greenwood Residential Sales	46,549	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,411,363,511	SC Residential Sales excluding Greenwood	6,906,924	99.33056%
4 Non-Residential (excluding lighting)	Company Records	15,139,896,798	Total SC Non-Residential Sales (excluding lighting)	14,965,058	
5 Factor to exclude Greenwood	see calc. to right	99.97413%	Greenwood Non-Residential Sales (exc. lighting)	3,872	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	15,135,980,107	SC Non-Residential Sales excluding Greenwood	14,961,186	99.97413%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	<u>21,547,343,618</u>	Total SC Retail Sales (excluding lighting)	21,918,532	
			Greenwood Retail Sales (excluding lighting)	50,421	
			SC Retail Sales excluding Greenwood (exc. lighting)	21,868,110	

Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2015			
8 EE	15,135,980,107	9,824,240,223	5,311,739,884
9 DSM	15,135,980,107	9,107,406,897	6,028,573,210
Year 2016			
10 EE	15,135,980,107	10,115,080,343	5,020,899,764
11 DSM	15,135,980,107	9,184,643,284	5,951,336,823
Year 2017			
12 EE	15,135,980,107	10,211,024,604	4,924,955,503
13 DSM	15,135,980,107	9,184,643,284	5,951,336,823
Year 2018			
14 EE	15,135,980,107	10,257,713,985	4,878,266,122
15 DSM	15,135,980,107	9,169,736,147	5,966,243,960
Year 2019			
16 EE	15,135,980,107	10,292,065,354	4,843,914,753
17 DSM	15,135,980,107	9,171,114,347	5,964,865,760
Year 2020			
18 EE	15,135,980,107	10,292,065,354	4,843,914,753
19 DSM	15,135,980,107	9,171,114,347	5,964,865,760

Summary:

Non-residential customers participating in the net Metering program are assumed to be opted out of the EE programs and their fee does not include an EE component.

Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider.

Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirement requested on Exhibit A.

[illegible]

Duke Energy Carolinas
For the Period January 2014 - December 31, 2019
Docket Number 2019-89-E
Residential Interest Calculation - Year 2015 -2016

Residential

<u>Year 2015</u>		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement	Year 2015 Exhibit 1	\$ 20,863,572	\$ 2,913,969	\$ 2,698,157	\$ 1,146,767		\$ 27,622,464
2 Revenue Collections	Rider 11, Exhibit 2	16,272,294	5,212,244	3,566,456	2,555,389	141,325	27,747,708
3 (Over) / Under Collection	Line 1 - Line 2	4,591,278	(2,298,275)	(868,299)	(1,408,622)	(141,325)	(125,244)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	4,591,278	2,293,003	1,424,703	16,081	(125,244)	
5 Average Balance (Over)/Under Collection		2,295,639	3,442,140	1,858,853	720,392	(54,581)	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	0.005782	0.005782	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 159,281	\$ 238,829	\$ 128,975	\$ 49,984	\$ (3,787)	\$ 573,281
9 Interest Paid (Returned) in Prior Rider	R10 Exh 2 Line 6						581,413
10 Interest Due - Rider 10	Line 8 - Line 9						\$ (8,132)
11 Gross Receipts Tax							1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ (8,168)
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

<u>Year 2016</u>		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
14 Revenue Requirement	Year 2016 Exhibit 1	\$ -	\$ 26,619,929	\$ 2,541,280	\$ 2,638,607	1,401,449	\$ 33,201,265
15 Revenue Collections	Rider 11, Exhibit 2	-	18,936,713	4,209,049	8,640,262	1,848,972	33,634,996
16 (Over) / Under Collection	Line 1 - Line 2	-	7,683,215	(1,667,769)	(6,001,654)	(447,523)	(433,731)
17 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	-	7,683,215	6,015,447	13,792	(433,731)	
18 Average Balance (Over)/Under Collection		-	3,841,608	6,849,331	3,014,619	(209,969)	
19 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	0.005782	0.005782	
20 Number of Months		12	12	12	12	12	
21 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ -	\$ 266,546	\$ 475,234	\$ 209,166	\$ (14,569)	\$ 936,378
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 6						965,993
23 Interest Due - Rider 10	Line 8 - Line 9						\$ (29,616)
24 Gross Receipts Tax							1.004450
25 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ (29,747)
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Residential Interest Calculation - Year 2017 - 2018

Residential

Year 2017		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 30,462,648	\$ 3,977,873	3,175,509	\$ 37,616,031
2 Revenue Collections	Rider 11, Exhibit 2	22,373,744	1,734,312	13,814,256	Note B 37,922,311
3 (Over) / Under Collection	Line 1 - Line 2	8,088,905	2,243,562		10,332,466
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	8,088,905	10,332,466	10,332,466	
5 Average Balance (Over)/Under Collection		4,044,452	9,210,686	10,332,466	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	
7 Number of Months		12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 280,620	\$ 639,074	\$ 716,908	\$ 1,636,602
9 Interest Paid (Returned) in Prior Rider	N/A				930,320
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 706,282
11 Gross Receipts Tax					1.004450
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 709,425
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 11 Exhibit.

Year 2018		<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 36,554,572	2,340,939	\$ 38,895,511
2 Revenue Collections	Rider 11, Exhibit 2	31,444,916	2,340,939	Note B 33,785,855
3 (Over) / Under Collection	Line 1 - Line 2	5,109,657	-	5,109,657
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	5,109,657	5,109,657	
5 Average Balance (Over)/Under Collection		2,554,828	5,109,657	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	
7 Number of Months		12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 177,264	\$ 354,528	\$ 531,793
9 Interest Paid (Returned) in Prior Rider	N/A			-
10 Interest Due - Rider 10	Line 8 - Line 9			\$ 531,793
11 Gross Receipts Tax				1.004450
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11			\$ 534,159
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 11 Exhibit 2.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Non-Residential Interest Calculation Year 2015

Non-Residential

Year 2015 - Energy Efficiency

		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement before interest	Year 2015 Exhibit 1	\$ 15,997,437	\$ 3,147,757	\$ 2,221,098	\$ 1,188,315		\$ 22,554,607
2 Revenue Collections	Rider 10, Exhibit 2	5,475,152	4,020,808	9,438,922	1,828,265	1,872,527	22,635,674
3 (Over) / Under Collection	Line 1 - Line 2	10,522,284	(873,051)	(7,217,824)	(639,950)	(1,872,527)	(81,067)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	10,522,284	9,649,234	2,431,410	1,791,460	(81,067)	
5 Average Balance (Over)/Under Collection		5,261,142	10,085,759	6,040,322	2,111,435	855,196	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 365,039	\$ 699,790	\$ 419,102	\$ 146,500	\$ 59,337	\$ 1,689,768
9 Interest Paid (Returned) in prior rider	R9 Exh 2 Line 13						1,633,243
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 56,525
11 Gross Receipts Tax							1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 56,776
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Year 2015 - DSM

		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
14 Revenue Requirement before interest	Year 2015, Exhibit 1	\$ 7,467,622	\$ -				\$ 7,467,622
15 Revenue Collections	Rider 10, Exhibit 2	5,257,163	1,409,288	579,530	87,728	143,168	7,476,877
16 (Over) / Under Collection	Line 14 - Line 15	2,210,459	(1,409,288)	(579,530)	(87,728)	(143,168)	(9,255)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	2,210,459	801,170	221,640	133,913	(9,255)	
18 Average Balance (Over)/Under Collection		1,105,229	1,505,815	511,405	177,776	62,329	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 76,685	\$ 104,479	\$ 35,483	\$ 12,335	\$ 4,325	233,307
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 20						229,304
23 Interest Due - Rider 10	Line 21 - Line 22						\$ 4,004
24 Gross Receipts Tax							1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24						\$ 4,021
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Non-Residential Interest Calculation Year 2016

Non-Residential

<u>Year 2016 - Energy Efficiency</u>		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement before interest	Year 2016 Exhibit 1	\$ 25,816,275	\$ 3,007,387	\$ 3,362,782	\$ 1,806,744	\$ 33,993,189
2 Revenue Collections	Rider 11, Exhibit 2	14,145,231	5,235,479	11,569,790	2,272,717	33,223,217
3 (Over) / Under Collection	Line 1 - Line 2	11,671,044	(2,228,092)	(8,207,007)	(465,973)	769,971
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	11,671,044	9,442,952	1,235,944	769,971	
5 Average Balance (Over)/Under Collection		5,835,522	10,556,998	5,339,448	1,002,958	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 404,892	\$ 732,487	\$ 370,472	\$ 69,589	\$ 1,577,440
9 Interest Paid (Returned) in prior rider	N/A					1,481,139
10 Interest Due - Rider 10	Line 8 - Line 9					\$ 96,301
11 Gross Receipts Tax						1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11					\$ 96,730
13 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.9384%	6.9384%	
		NOTE A	NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2019 collection on Rider 11 Exhibit 2.

<u>Year 2016 - DSM</u>		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
14 Revenue Requirement before interest	Year 2016, Exhibit 1	\$ 6,480,381	\$ -			\$ 6,480,381
15 Revenue Collections	Rider 11, Exhibit 2	5,730,973	687,354	37,334	30,792	6,486,453
16 (Over) / Under Collection	Line 14 - Line 15	749,408	(687,354)	(37,334)	(30,792)	(6,072)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	749,408	62,054	24,720	(6,072)	
18 Average Balance (Over)/Under Collection		374,704	405,731	43,387	9,324	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 25,998	\$ 28,151	\$ 3,010	\$ 647	57,807
22 Interest Paid (Returned) in Prior Rider	N/A					57,371
23 Interest Due - Rider 10	Line 21 - Line 22					\$ 436
24 Gross Receipts Tax						1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24					\$ 438
26 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.9384%	6.9384%	
		NOTE A	NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2018 revenue included at revised requested amount shown on Rider 10 Exhibit 2, page 1 of 3.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Non-Residential Interest Calculation Year 2017

Non-Residential

Year 2017 - Energy Efficiency

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
1 Revenue Requirement before interest	Year 2017 Exhibit 1	\$ 33,701,645	\$ 11,296,323	\$ 5,864,726	\$ 50,862,694
2 Revenue Collections	Rider 11, Exhibit 2	17,081,335	4,428,890	28,326,436	49,836,661
3 (Over) / Under Collection	Line 1 - Line 2	16,620,310	6,867,433	(22,461,710)	1,026,033
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	16,620,310	23,487,743	1,026,033	
5 Average Balance (Over)/Under Collection		8,310,155	20,054,027	12,256,888	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 576,592	\$ 1,391,429	\$ 850,432	\$ 2,818,452
9 Interest Paid (Returned) in prior rider	N/A				1,932,425
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 886,027
11 Gross Receipts Tax					1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 889,970
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 11 Exhibit 2.

Year 2017 - DSM

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484			\$ 7,000,484
15 Revenue Collections	Rider 10, Exhibit 2	6,368,636	137,133	631,848	7,137,618
16 (Over) / Under Collection	Line 14 - Line 15	631,848	(137,133)	(631,848)	(137,133)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	494,715	(137,133)	
18 Average Balance (Over)/Under Collection		315,924	563,281	178,791	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920	\$ 39,083	\$ 12,405	73,408
22 Interest Paid (Returned) in Prior Rider	N/A				65,760
23 Interest Due - Rider 10	Line 21 - Line 22				\$ 7,648
24 Gross Receipts Tax					1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24				\$ 7,682
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2019 revenue included at requested amount on Rider 11 Exhibit 2.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Non-Residential Interest Calculation Year 2018

Non-Residential**Year 2018 - Energy Efficiency**

		<u>2018</u>	<u>2019</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2018 Exhibit 1	\$ 23,446,193	\$ 4,168,069		\$ 27,614,262
2 Revenue Collections	Rider 11, Exhibit 2	20,670,345	5,435,606	NOTE B	26,105,951
3 (Over) / Under Collection	Line 1 - Line 2	2,775,848	(1,267,537)		1,508,311
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	2,775,848	1,508,311		
5 Average Balance (Over)/Under Collection		1,387,924	2,142,080		
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%		
7 Number of Months		12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 96,300	\$ 148,626		\$ 244,926
9 Interest Paid (Returned) in prior rider	N/A				-
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 244,926
11 Gross Receipts Tax					1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 246,016
13 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.9384%	
		NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 11 Exhibit 2.

Year 2018 - DSM

		<u>2018</u>	<u>2018</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2018, Exhibit 1	\$ 7,614,169			\$ 7,614,169
15 Revenue Collections	Rider 11, Exhibit 2	6,299,502	313,603	NOTE B	6,613,105
16 (Over) / Under Collection	Line 14 - Line 15	1,314,667	(313,603)		1,001,064
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	1,314,667	1,001,064		
18 Average Balance (Over)/Under Collection		657,333	1,157,865		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%		
20 Number of Months		12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 45,608	\$ 80,337		125,946
22 Interest Paid (Returned) in Prior Rider	N/A				-
23 Interest Due - Rider 10	Line 21 - Line 22				\$ 125,946
24 Gross Receipts Tax					1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24				\$ 126,506
26 Weighted average cost of capital (WACC)		6.9384%	6.9384%		
		NOTE A	NOTE A		

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2019 revenue included at requested amount on Rider 11 Exhibit 2.